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HARTLEY *et al.*
Appl. No. 09/517,466

at line 14, after "(Figure 11B)" please insert -- (SEQ ID NO:119) --;
at line 16, after "(Figure 12B)" please insert -- (SEQ ID NO:120) --;
at line 18, after "(Figure 13B)" please insert -- (SEQ ID NO:121) --;
at line 20, after "(Figure 14B)" please insert -- (SEQ ID NO:122) --;
at line 22, after "(Figure 15B)" please insert -- (SEQ ID NO:123) --;
at line 24, after "(Figure 16B)" please insert -- (SEQ ID NO:124) --;
at line 26, after "(Figure 17B)" please insert -- (SEQ ID NO:125) --;
at line 28, after "(Figure 18B)" please insert -- (SEQ ID NO:126) --; and
at line 30, after "(Figure 19B)" please insert -- (SEQ ID NO:127) --.

At page 21, line 2, after "(Figure 20B)" please insert -- (SEQ ID NO:128) --;

at line 5, after "(Figure 21B-D)" and before the comma, please insert -- (SEQ
ID NO:129) --;

at line 10, after "(Figure 22B-D)" and before the comma, please insert -- (SEQ
ID NO:130) --;

at line 15, after "(Figure 23B-D)" and before the comma, please insert -- (SEQ
ID NO:131) --;

at line 21, after "(Figure 24B-D)" and before the comma, please insert -- (SEQ
ID NO:132) --;

at line 25, after "(Figure 25C-D)" and before the comma, please insert -- (SEQ
ID NO:133) --; and

at line 29, after "(Figure 26C-D)" and before the comma, please insert -- (SEQ
ID NO:134) -- .

At page 22, line 2, after "(Figure 27B-C)" and before the comma, please insert

-- (SEQ ID NO:135) --;

at line 7, after "(Figure 28B-D)" and before the comma, please insert -- (SEQ

ID NO:136) --;

at line 11, after "29B-E)" and before the comma, please insert -- (SEQ ID

NO:137) --;

at line 15, after "(Figure 30B-D)" and before the comma, please insert -- (SEQ

ID NO:138) --;

at line 19, after "(Figure 31B-D)" and before the comma, please insert -- (SEQ

ID NO:139) --;

at line 23, after "(Figure 32B-D)" and before the comma, please insert -- (SEQ

ID NO:140) --;

at line 26, after "(Figure 33B-C)" and before the comma, please insert -- (SEQ

ID NO:141) --; and

at line 30, after "(Figure 34B-D)" and before the comma, please insert -- (SEQ

ID NO:142) -- .

At page 23, line 4, after "(Figure 35B-D)" and before the comma, please insert

-- (SEQ ID NO:143) --;

at line 8, after "(Figure 36B-D)" and before the comma, please insert -- (SEQ

ID NO:144) --;

at line 12, after "(Figure 37B-D)" and before the comma, please insert -- (SEQ

ID NO:145) --;

at line 16, after "(Figure 38B-D)" and before the comma, please insert -- (SEQ
ID NO:146) --;

at line 20, after "(Figure 39B-D)" and before the comma, please insert -- (SEQ
ID NO:147) --;

at line 24, after "(Figure 40B-D)" and before the comma, please insert -- (SEQ
ID NO:148) --; and

at line 28, after "(Figure 41B-E)" and before the comma, please insert -- (SEQ
ID NO:149) --.

At page 24, line 1, after "(Figure 42B-D)" and before the comma, please insert
-- (SEQ ID NO:150) --;

at line 5, after "(Figure 43B-D)" and before the comma, please insert -- (SEQ
ID NO:151) --;

at line 9, after "(Figure 44B-D)" and before the comma, please insert -- (SEQ
ID NO:152) --;

at line 13, after "(Figure 45B-D)" and before the comma, please insert -- (SEQ
ID NO:153) --;

at line 17, after "(Figure 46B-D)" and before the comma, please insert -- (SEQ
ID NO:154) --;

at line 21, after "(Figure 47B-D)" and before the comma, please insert -- (SEQ
ID NO:155) --;

at line 24, after "(Figure 48C-D)" and before the comma, please insert -- (SEQ
ID NO:156) --; and

at line 28, after "(Figure 49B-C)" and before the comma, please insert -- (SEQ ID NO:157) -- .

At page 25, at line 2, after "(Figure 50B-C)" and before the comma, please insert -- (SEQ ID NO:158) --;

at line 5, after "(Figure 51B-C)" and before the comma, please insert -- (SEQ ID NO:159) --;

at line 8, after "(Figure 52B-C)" and before the comma, please insert -- (SEQ ID NO:160) --;

at line 11, after "(Figure 53B-C)" and before the comma, please insert -- (SEQ ID NO:161) --; and

at line 14, after "(Figure 54B-C)" and before the comma, please insert -- (SEQ ID NO:162) --.

At page 28, line 6, after "Cassettes" and before the period, please insert -- (SEQ ID NOs:163-170) --;

at line 14, after "cassettes" please insert -- (SEQ ID NOs:171-173) --; and

at line 25, after "Figure 83B-C)" and before the comma, please insert -- (SEQ ID NO:174) -- .

At page 29, line 5, after "(Figure 90B-D)" and before the comma, please insert -- (SEQ ID NO:175) --;

at line 7, after "(Figure 91B-D)" and before the comma, please insert -- (SEQ
ID NO:176) --;

at line 9, after "(Figure 92B-D)" and before the comma, please insert -- (SEQ
ID NO:177) --;

at line 11, after "(Figure 93B-D)" and before the comma, please insert -- (SEQ
ID NO:178) --;

at line 13, after "(Figure 94B-E)" and before the comma, please insert -- (SEQ
ID NO:179) --;

at line 15, after "(Figure 95B-D)" and before the comma, please insert -- (SEQ
ID NO:180) --;

at line 17, after "(Figure 96B-D)" and before the comma, please insert -- (SEQ
ID NO:181) --;

at line 19, after "(Figure 97B-C)" and before the comma, please insert -- (SEQ
ID NO:182) --;

at line 22, after "(Figure 98B-D)" and before the comma, please insert -- (SEQ
ID NO:183) --; and

at line 24, after "(Figure 99B-D)" and before the comma, please insert -- (SEQ
ID NO:184) -- .

At page 51, line 13, after "ACAAGTTTGTACAAAAAAGCAGGCT" and before the
comma, please insert -- (SEQ ID NO:1) --; and

at line 26, after "ACCCAGCTTTCTTGTACAAAGTGGT" and before the
comma, please insert -- (SEQ ID NO:2) -- .

At page 52, line 20, after "AATCATTATTTG" and before the comma, please insert -- (SEQ ID NO:3) -- .

At page 53, line 5, after "CTACTTAGATGGTATTAGTGACCTGTA" and before the comma, please insert -- (SEQ ID NO:4) --; and
at line 29, after "CTATG" and before the comma, please insert -- (SEQ ID NO:5) -- .

At page 54, line 12, after "TCTTGTACAAAGTGGT" and before the comma, please insert -- (SEQ ID NO:6) -- .

At page 55, line 7, after "TTG TAC AAA AAA GCA GGC T" and before the comma, please insert -- (SEQ ID NO:7) --; and
at line 21, after "CTT TGT ACA AGA AAG CTG GGT" and before the comma, please insert -- (SEQ ID NO:8) -- .

At page 59, line 9, after "(GCTTTTTTTATACTAA)" and before the period, please insert -- (SEQ ID NO:9) -- .

At page 61, line 3, after "agcctgctttattataactaagtggcatta" please insert -- (SEQ ID NO:10) --;
at line 4, after "agcctgctttttatattaagtggcatta" please insert -- (SEQ ID NO:11);

at line 5, after "ggggacaactttgtacaaaaagttggct" please insert -- (SEQ ID NO:12) --;

at line 6, after "ggggacaactttgtacaagaaagctgggt" please insert -- (SEQ ID NO:13) --; and

at line 7, after "ggggacaactttgtacaagaaagttgggt" please insert -- (SEQ ID NO:14) -- .

At page 67, line 30, after "... n" please insert -- (SEQ ID NO:15) --;

at line 31, after "... n" please insert -- (SEQ ID NO:16) --; and

at line 32, after "... n" please insert -- (SEQ ID NO:17) -- .

At page 68, line 1, after "... n" and before the comma, please insert -- (SEQ ID NO:18) -- .

At page 69, line 3, after "... n" please insert -- (SEQ ID NO:19) --;

at line 4, after "... n" please insert -- (SEQ ID NO:20) --;

at line 5, after "... n" please insert -- (SEQ ID NO:21) --;

at line 6, after "... n" please insert -- (SEQ ID NO:22) --;

at line 7, after "... n" please insert -- (SEQ ID NO:23) --;

at line 8, after "... n" please insert -- (SEQ ID NO:24) --;

at line 9, after "... n" please insert -- (SEQ ID NO:25) --;

at line 10, after "... n" please insert -- (SEQ ID NO:26) --;

at line 11, after "... n" please insert -- (SEQ ID NO:27) --;

at line 12, after "... n" please insert -- (SEQ ID NO:28) --;

at line 13, after "... n" please insert -- (SEQ ID NO:29) --; and

at line 14, after "... n" please insert -- (SEQ ID NO:30) -- .

At page 94, line 22, please delete "_____" and insert therefor -- 09/518,188 -- .

At page 111, line 24, after "sequence)-3" please insert -- (SEQ ID NO:31) --; and

at line 26, after "sequence)-3" please insert -- (SEQ ID NO:32) -- .

At page 130, line 29, after "structure" and before the colon please insert -- (SEQ ID

NO:33) -- .

At page 132, line 11, after "----COOH" please insert -- (SEQ ID NO:34) --; and

at line 15, after "(GITSLYKKAGF)" and before the period, please insert
-- (SEQ ID NO:35) -- .

At page 143, line 2, after "ttgc" please insert -- (SEQ ID NO:36) --;

at line 3, after "ttgc" please insert -- (SEQ ID NO:37) --;

at line 4, after "aa" at the end of the line, please insert -- (SEQ ID NO:38) --;

at line 6, after "aacgtaaaat" please insert -- (SEQ ID NO:39) --;

at line 7, after "aacgtaaaat" please insert -- (SEQ ID NO:40) --; and

at line 8, after "tgaacctgaa" please insert -- (SEQ ID NO:41) -- .

At page 145, line 31, after “-Hgb*” please insert -- (SEQ ID NO:42) --; and
at line 32, after “-Hgb*” please insert -- (SEQ ID NO:43) -- .

At page 146, line 1, after “5'-Hgb” please insert -- (SEQ ID NO:44) --;
at line 2, after “3'-Hgb” please insert -- (SEQ ID NO:45) --;
at line 3, after “5'-Hgb” please insert -- (SEQ ID NO:46) --;
at line 4, after “3'-Hgb” please insert -- (SEQ ID NO:47) --;
at line 5, after “5'-Hgb” please insert -- (SEQ ID NO:48) --;
at line 6, after “3'-Hgb” please insert -- (SEQ ID NO:49) --;
at line 7, after “5'-Hgb” please insert -- (SEQ ID NO:50) --;
at line 8, after “3'-Hgb” please insert -- (SEQ ID NO:51) --;
at line 9, after “5'-Hgb” please insert -- (SEQ ID NO:52) --;
at line 10, after “3'-Hgb” please insert -- (SEQ ID NO:53) --;
at line 20, after “GGC T” please insert -- (SEQ ID NO:54) --;
at line 21, after “GGG T” please insert -- (SEQ ID NO:55) --;
at line 23, after “AAG A” please insert -- (SEQ ID NO:56) --; and
at line 24, after “GAC A” please insert -- (SEQ ID NO:57) -- .

At page 150, line 32, after “(GCTTTTTTTATACTAA)” please insert -- (SEQ ID
NO:58) -- .

At page 152, line 7, after “ttgc” please insert -- (SEQ ID NO:36) --;
at line 10, after “ttgc” please insert -- (SEQ ID NO:37) --;

at line 14, after "ttgc" please insert -- (SEQ ID NO:59) --;
at line 18, after "ttgc" please insert -- (SEQ ID NO:60) --;
at line 21, after "ttgc" please insert -- (SEQ ID NO:61) --;
at line 24, after "ttgc" please insert -- (SEQ ID NO:62) --;
at line 27, after "ttgc" please insert -- (SEQ ID NO:63) --;
at line 30, after "ttgc" please insert -- (SEQ ID NO:64) --; and
at line 33, after "ttgc" please insert -- (SEQ ID NO:65) -- .

At page 153, line 2, after "ttgc" please insert -- (SEQ ID NO:66) --;
at line 5, after "ttgc" please insert -- (SEQ ID NO:67) --;
at line 9, after "ttgc" please insert -- (SEQ ID NO:68) --;
at line 13, after "ttgc" please insert -- (SEQ ID NO:69) --;
at line 17, after "ttgc" please insert -- (SEQ ID NO:70) --;
at line 20, after "ttgc" please insert -- (SEQ ID NO:71) --;
at line 24, after "ttgc" please insert -- (SEQ ID NO:72) --;
at line 27, after "ttgc" please insert -- (SEQ ID NO:73) --;
at line 31, after "ttgc" please insert -- (SEQ ID NO:74) --; and
at line 35, after "ttgc" please insert -- (SEQ ID NO:75) -- .

At page 154, line 2, after "ttgc" please insert -- (SEQ ID NO:76) --;
at line 6, after "ttgc" please insert -- (SEQ ID NO:77) --;
at line 10, after "ttgc" please insert -- (SEQ ID NO:78) --;
at line 14, after "ttgc" please insert -- (SEQ ID NO:79) --;

at line 17, after "ttgc" please insert -- (SEQ ID NO:80) --;
at line 21, after "ttgc" please insert -- (SEQ ID NO:81) --;
at line 25, after "ttgc" please insert -- (SEQ ID NO:82) --;
at line 28, after "ttgc" please insert -- (SEQ ID NO:83) --;
at line 31, after "ttgc" please insert -- (SEQ ID NO:84) --; and
at line 35, after "ttgc" please insert -- (SEQ ID NO:85) -- .

At page 157, line 12, after "attL0" please insert -- (SEQ ID NO:86) --;
at line 13, after "attL5" please insert -- (SEQ ID NO:87) --;
at line 14, after "attL6" please insert -- (SEQ ID NO:88) --;
at line 15, after "attL13" please insert -- (SEQ ID NO:89) --;
at line 16, after "attL14" please insert -- (SEQ ID NO:90) --;
at line 17, after "attL15" please insert -- (SEQ ID NO:91) --; and
at line 19, after "consensus" please insert -- (SEQ ID NO:92) -- .

At page 158, line 15, after "attB0" please insert -- (SEQ ID NO:93) --;
at line 16, after "attB1" please insert -- (SEQ ID NO:94) --;
at line 17, after "attB2" please insert -- (SEQ ID NO:95) --;
at line 18, after "attB2.1" please insert -- (SEQ ID NO:96) --;
at line 19, after "attB2.2" please insert -- (SEQ ID NO:97) --;
at line 20, after "attB2.3" please insert -- (SEQ ID NO:98) --;
at line 21, after "attB2.4" please insert -- (SEQ ID NO:99) --;
at line 22, after "attB2.5" please insert -- (SEQ ID NO:100) --;

at line 23, after “attB2.6” please insert -- (SEQ ID NO:101) --;
at line 24, after “attB2.7” please insert -- (SEQ ID NO:102) --; and
at line 25, after “attB2.8” please insert -- (SEQ ID NO:103) -- .

At page 159, line 7, after “attB1” please insert -- (SEQ ID NO:104) --;
at line 8, after “attB1.6” please insert -- (SEQ ID NO:105) --;
at line 9, after “attB2” please insert -- (SEQ ID NO:106) --; and
at line 10, after “attB2.10” please insert -- (SEQ ID NO:107) -- .

At page 161, line 20, after “attB1” please insert -- (SEQ ID NO:108) --;
at line 21, after “attB1n16-20” please insert -- (SEQ ID NO:109) --;
at line 22, after “attB1n21-25” please insert -- (SEQ ID NO:110) --;
at line 24, after “attB2” please insert -- (SEQ ID NO:111) -- ;
at line 25, after “attB2n16-20” please insert -- (SEQ ID NO:112) --; and
at line 26, after “attB2n21-25” please insert -- (SEQ ID NO:113) -- .

At page 163, line 18, after “attB1” and before the colon, please insert -- (SEQ ID
NO:114) --;
at line 20, after “attB2” and before the colon, please insert -- (SEQ ID
NO:115) --;
at line 22, after “primer” and before the colon, please insert -- (SEQ ID
NO:116) --; and

at line 24, after “primer” and before the colon, please insert -- (SEQ ID NO:117) -- .

In the specification, after the drawings, please insert the paper copy of the Sequence Listing for the subject application (pages 1-285).

In the Claims:

Please amend the claims as follows:

30. (Once amended) The isolated nucleic acid molecule of claim 29, wherein said mutated *att* recombination site is a mutated *attL* site comprising a core region having the nucleotide sequence caactntntnnnannaagttg (SEQ ID NO:92), wherein “n” represents any nucleotide.

31. (Once amended) The isolated nucleic acid molecule of claim 30, wherein said mutated *attL* recombination site comprises a core region having a nucleotide sequence selected from agcctgctttattataactaagttggcatta (*attL5*; SEQ ID NO:87) and agcctgctttttatattaagttggcatta (*attL6*; SEQ ID NO:88).

32. (Once amended) The isolated nucleic acid molecule of claim 29, wherein said mutated *att* recombination site comprises a core region having a nucleotide sequence selected from the group consisting of ggggacaactttgtacaaaaaagttggct (*attB1.6*; SEQ ID NO:105),